

Abstract

The present invention provides an improved retaining system for securing a cutting tool to a support block. The retaining system includes at least one groove, having a first predetermined shape, formed in an outer surface of a shank portion of the cutting tool. The groove is formed in a direction transverse to a longitudinal axis of the shank. There is at least one groove, having a second predetermined shape, formed in a surface of a bore formed through an axis of the support block for receiving the shank portion of the cutting tool. The at least one groove formed in the outer surface of the shank portion of the cutting tool is radially opposed to the at least one groove formed in the surface of the bore formed through the axis of the support block when the shank portion is inserted into the bore of the support block. The final essential element of the retaining system is at least one pin member engageable with each of at least one groove formed in the outer surface of such shank portion of the cutting tool and the at least one groove formed in the surface of the bore formed through the axis of the support block for securing the cutting tool to the support block.